

TRICAR LTD

DESIGN & CONSTRUCTION SERVICES

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November 8, 2002

Mr. Karl C. Wetherholt, PE
Gahanna City Engineer
Gahanna Municipal Building
200 South Hamilton Road
Gahanna, Ohio 43230

Re: Low Water Crossing Construction Cost Status

Dear Mr. Wetherholt:

The contractor for the Low Water Crossing (Double Z Construction) is now nearing the completion of the project. As you know, we are not pleased with the quality of the Contractor's workmanship (primarily with respect to the concrete flatwork) and we are awaiting a written response from Double Z regarding how Double Z intends to rectify these inadequacies.

Because of the unacceptability of these work items, it is difficult at this time to ascertain what the final project construction cost will be. However, we do know what the highest likely final construction cost will be if the project was closed out today and all installed quantities were accepted. As it stands now, this amount would be approximately \$103,977.00 (4.1% more than the original Double Z contract amount of \$99,820.00).

However, as I mentioned, TriCar will not need the full amount encumbered in our contract to complete our work on the project. Therefore, in order to make sure that sufficient funds will exist to close out Double Z's construction contract, we would suggest that the City transfer at least \$4,200.00 from our TriCar inspection contract to Double Z's construction contract.

The work quantities involved in this \$4,200.00 estimate include:

- #1. After the bridge decking was installed, a decision was made to use 2x10 side boards on the bridge deck instead of 2x8's to completely hide the bridge substructure from view. This change translates to an extra of approximately \$200.00.
- #2. A total of 1,909 sf of sidewalk area was constructed in the area of the crossing instead of the bid quantity of 1,656 sf. At \$5.00 per sf, this additional quantity translates to an extra of \$1,265.00.
- #3. During construction, the Franklin County Auditor topographic mapping used to prepare our drawings for the south golf course parking lot access were found to be inaccurate. Instead of requiring the bid amount of 385 cy of excavation, the initial field measurements indicate that up to 424 cy of excavation was actually required. At \$18.00 per cy, this additional quantity translates to an extra of \$702.00.

EXHIBIT A

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- #4. To complete the concrete trailway access walkway at the south golf parking lot, a total of 1,520 sf of walk was constructed compared to the original bid quantity of 1,280 sf. At \$3.50 per sf, this additional quantity translates to an extra of \$840.00.
- #5. According to our specifications, the large pieces of "seating" stone used around the outside of the two bridge council rings were to average 3.5' x 2.5' x 2' in size which would have only required the bid amount of 40 tons. However, when the first load of stone was delivered, the average stone size delivered by the quarry was approximately 50% larger than what was specified. Even though this stone size is better in terms of being heavier to resist Big Walnut Creek flood flows, using this larger stone size will result in requiring approximately 55 tons to complete the project. Even though this excess tonnage is the contractor's problem we have, per our discussions, told Double Z that the City will be willing to pay up to 1/3 the additional cost considering the fact that the delivered stones, being heavier, will better resist the high flow conditions in Big Walnut Creek. This 1/3 amount would therefore translate to an extra of \$1,150.00.

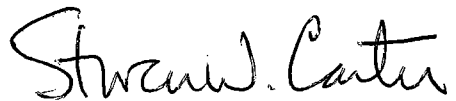
The above five items total to approximately \$4,157.00.

Again however, there are some serious problems relating to the quality of the work performed by Double Z and Double Z has been put on notice to submit a written plan of how they intend to rectify their problems. In the meantime, we have also informed Double Z that no further pay requests will be entertained until these major problems are taken care of.

At this stage however, our immediate need is make sure that the City will not have to appropriate additional amounts to complete this project. By making this transfer of funds, we can still make sure that this project comes in under budget.

As always, we greatly appreciate this opportunity to be of service. Please contact me at 579-3403 if you have any comments, questions or desire additional information.

Sincerely,
TRICAR LTD


Steven W. Carter, PE, CSI, CCCA.